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## Report on

**International Conference on "Recent Innovation and Trends in Engineering, Technology and Research" (ICRITETR-2017)** 

**December 23-24, 2017** 

Coordinated by

Dr. Sunil Gupta

Dr. Virendra sangtani

Organized by



Department of Electrical Engineering
Poornima College of Engineering
Jaipur, Rajasthan- (India)

#### ABOUT JAIPUR

Jaipur, the Pink City of India, is enormously admired tourist destination in Rajasthan and India. As per the census of 2011 & 2008, it is the 10th largest city of India ranking among the fifty



ranking among the fifty eniphering folio obscruring cities. It was founded on 18th November, 1727 by Maharaja Sawai Jai Singh II, the rule of Amber. It is an enthralling historical city and gateway to India's most flamboyant state. The city is colorful with conclusion of organized architecture unveiling the royal culture, arts and traditions as the heritage of Rajasthan.

#### ABOUT RAJASTHAN

Rajasthan is the largest state of the Republic of India by Area. It encompasses most of the area of the large, inhospitable Great Indian encompasses most of the area of the large, inhospitable Great Indian desert [That Desent], which has an edge paralleling the Sulfe-Indua river valley along its border with Pakistan. The state borden Pakistan to the west, Guigarts to the southwest, Madhya Padede the southeast, Uttar Pradesh & Haryana to the northeast & Puripit to the north. Rajasthan covers in area of 34.22 gas (am. The Proportion of the state is stall area to the total area of the country is 10.41%.

#### HOW TO REACH CONFERENCE VENUE

Jaipur is one zenith of the popular tourism Golden Triangle circuit Agra-Delhi-Jaipur and is well connected to most parts of India by air, train and road. Poornima College of Engineering is located about 268 km by road & 308 km by train from Delhi. It is situated at the Jaipur, capital of Rajasthan and is encircled by several industries. Jaipur Railway Station and Jaipur Bus Stand are close by and are about 25 km. from



SAVE ENERGY

#### TECHNICAL ADVISORY COMMITTEE

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NT Srinagar

#### LOCAL ADVISORY COMMITTEE

K. S. Bhatia	Vice-Chancellor, PU
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Dr. K.
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Dr. Kel
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Dr. Ch
Dr. Aj
Mr. Sh
Mr. Am
Mr. Mr. Mr. Sh
Dr. Ch

Papers Send at: icritetr2017@poornima.org.

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#### KEYNOTE SPEAKER (S)

Dr. R.C. Bansal

Dr. Akshay Rathore

#### IMPORTANT DATES

Full Paper Submission Deadline Extended	05 Dec. 2017
Acceptance Notification	06 Dec 2017
Camera Ready Paper	07 Dec 2017
Registration Deadline	07 Dec 2017

Accommodation:
The organizers shall provide all help and assistance to the delegates for spritting suitable accommodation, however, the purticipants of delegates are strategy-ments for travel. Extending and coping. If any assistance is required, please contact: Mr. Md. Add lipple Theorems.

The registered outstation delegates may be provided, or and lodging in student hostels on nominal charges.

#### REGISTRATION

At least one of the author of reviewed & accepted paper is required to register for presenting the paper in the conference. The paper without progration will not paper in the Tocepter in the Tocepter in the processing. The registration will not paper in the Proceedings. The registration from so the very confirmed on the receipt of day signed registration from along with Demand Darft for registration fees, in those or "Poornimas College of Engineering", payable at Jabour. The fee is also transfer into our accounts through FEFTHIOS. The details of the account who provided the account who provided the provided programme in the programme in the provided programme in the programme in the pr

#### CONTACT PERSONS

Dr. Sunil Kumar Gupta

Dr. Virendra Sangtani Prof. and HOD, Electrical Enginee

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SAVE TREES

"Recent Innovation and Trends in Engineering, Technology and Research" ICRITETR-2017 **DECEMBER 23-24, 2017** isle Organized by Department of Electrical Engineering **POORNIMA** 



- is inciguous.

  Some key salient features are:

  Department of CSE & ECE are accredited by NBA.

  Successfully running three NHRD missions: (i) Quality Enhancement in Engineering Education (QEEE) of National Mission in Education through (CT & (iii) Indian Institute of Remote Sensing (IRIS) outreach

- through (OT & (iii) Indian Installation of Nerrossa community with Programs.

  A wareful by Infoury as an advanced partner institute for successfully running Campus-Connect Program.

  An institute designated as Center of Excellence by IRM.

  An institute designated as Center of Excellence by IRM.

  Successfully, running subsets chapters and forums of various Professional Societies such as IETE, IEEE, ISTE, IE, ISE, AOSHRAE.

  SIRRAE, (IRIO, CS.S.) Online subscription in membership of IEEE.

  DELINET, MOCISS à National Digital Library.

  The only institution permitted by RTU to admit PNPOIGULF subdents.

  Cross Culture global internating and voluntaire exchange appendences across the global through collaboration with AIESEC.

#### DEPARTMENT OF ELECTRICAL ENGINEERING

DEPARTMENT OF ELECTRICAL ENGINEERING
The Department of Electrical Engineering (EE) was established in 2000. National Board of Acceditation (NBA) accordant the EE department in 2008. It has an intake capacity of 160 students. The department has highly audited, committed and research centered faculty members. The department has alternated and research centered faculty members. The department has subcrated has a pure Rejastham Technical University substances with State of the Acts Scalification in the department for high substances of the department of the properties of the department in a vision areas of Decicial Engineering incubring Power Options. Energy States, Power Electronical Engineering incubring Power Systems, Energy States, Power Electronical Individuals etc. The vision of the department is use in model of accordance in Professional Exception and Research by creating electronic replaces and in Professional Exception and Research by creating electronic replaces and expression in the Inspirit Changing Reds and such noticing with the ability and explained in the Inspirit Changing Reds and such noticing with the ballity has work in large proparation.

## INDIAN SOCIETY FOR TECHNICAL EDUCATION

#### IETE JAIPUR CENTRE

s own premises which were inaugurated in 1991. I very active in conducting technical meetings, sy conferences, workshops and other student activities.

## INDIAN SOCIETY OF LIGHTING ENGINEERS

ABOUT ICRITETR - 2017

### REGISTRATION FEES

Туре	Delegan	(Tayris Oct. 25, 2017 )	(After Oct. 25, 2017 )	ISTE/ISTE/ISTE
A	Industrial & Other Delegates	₹ 2500/-	₹3000-	₹ 1700/-
8	Faculty Members	₹ 1700/-	₹ 2000/-	₹ 1500/-
C	Research Scholars	₹ 1500/-	₹ 1700/-	₹ 1200/
D	For Overseas	\$ 100/-	\$ 150/-	\$ 80/-
E	Listener	₹ 800/-	₹ 1000/-	₹ 500/

Conference Fee includes: Conference kit, Souvenir, Lunch and Tea during

#### **CONFERENCE TOPICS**

ers from academia as well as industry are invited to submit their npublished research papers in the following areas, but not

## THEME-1: Electrical and Electronics Engineering

- THEME-5: Basic and Applied Science

## CHIEF PATRON

#### PATRON

PROGRAM CHAIR

## CONVENER & ORGANIZING SECRETARY

CO-CONVENER

## REGISTRATION FORM

COLLEGE OF ENGINEERING

SAVE ELECTRICITY

INTERNATIONAL CONTERTATION "Recent Innovation and Trends in Engineering, Technology and Research"

### **ICRITETR-2017**

DECEMBER 23-24, 2017

Delegate Type – (A/B/C/D/E)#

(In block letters) Mailing Address

I wish to (Please tick where applicable) i) Participants ii) Listener

Title of the Paper ... Paper Code ....

(3)... Details of the D.D\*: Issued by (Bank & Branch) ....

(2).....

Signature of Participant \*Demand Draft drawn in favo Engineering\*, payable at Jaipur. #Mentioned in Registration Fee "Poornima College of

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International Conference on "Recent Innovation and Trends in Engineering, Technology and Research" (ICRITETR-2017)

Program Schedule: 23-24 Dec. 2017

Venue: Poornima College of Engineering

Date	Time	Activity	Venue
23 Dec.2017	8.45-10am	Registration	CG-05 (Help Desk)
	9.15-10am	Breakfast	Reception Area
	10.00-11.45am	Inaugural function	<i>CG</i> -05
		Key Note Speech (01)	<i>CG</i> -05
	11.45am-1:15	Dr. Akshay Rathore	
	pm	Concordia University, Montreal,	
		QC, Canada	
	1.15-1.45 pm	Lunch	Mess
		Paper Presentation	AB-05
		Session-1	
		Paper Code	
	1.45-4.00 pm	[(OT:101-109)	
		(CS:101-105)	
		(ME:101-104)	
		(CE:101)]	
		Paper Presentation	AG-03
	1.45-4.00 pm	Session-2	
		(EE: 120-136)	
		Key Note Speech (02)	<i>CG</i> -05
	8.45am-10am	Prof. (Dr.) Ramesh Bansal University	
		of Pretoria, South Africa	
24 Dec.	10-10.30am	Breakfast	Reception Area
2017		Paper Presentation	AB-05
	10.30.12.30pm	Session-3 (Paper Code EE: 101-110)	
	10.30.12.30pm	Paper Presentation	AG-03
	•	Session-4 (Paper Code EE: 111-120)	
	12.30-1pm	Valedictory	<i>CG</i> -05
	1.00 pm	lunch	Mess



## International Conference on "Recent Innovation and Trends in Engineering, Technology and Research" (ICRITETR-2017)

Dec. 23-24, 2017
Organized By
Department of Electrical Engineering
In Association with







## Venue: PCE, Seminar Hall CG-05 Inaugural Session

Anchors: Ms. Arpita Biwal and Ms. Sakshi Shrimal

S. No.	Activity	Time	Duration
1	Reporting and Registration of Delegates	60 Min	9-10 am
2	Gathering of Audience in CG-05		10:00-10:30 am
3	Welcome of Dignitaries by the anchors Ganesh Vandana/Stuti by Ms. Akansha Prajapat		10.30-10:35 am
4	<ul> <li>Request the dignitaries for lighting of lamp (Parallel Saraswati Vandana)</li> <li>A. Prof. (Dr.) S.M. Seth, Chairman (Emeritus), PF will preside over the function</li> <li>B. Shri. Shashikant Singhi, Chairman, Poornima Foundation</li> <li>C. Prof. (Dr.) Ramesh Bansal, Professor University of Pretoria (Chief Guest)</li> <li>D. Dr. Akshay Kumar Rathore Associate Professor, Concordia University, Canada (Guest of honour)</li> <li>E. Dr. Om Prakash Sharma, Director, Poornima College of Engineering</li> <li>F. Dr. Sunil Gupta, Prof., Dept. of Electrical Engineering, Convener-ICRITETR-2017</li> <li>G. Dr. Virendra Sangtani, Prof., HOD, Dept. of Electrical Engineering</li> </ul>	5 Min	10.35-10.40 am

5	<ul> <li>Felicitation of Prof. (Dr.) S.M. Seth, Chairman (Emeritus), PF by Shri. Shashikant Singhi, Chairman, Poornima Foundation</li> <li>Felicitation of Shri. Shashikant Singhi, Chairman, Poornima Foundation by Dr. Om Prakash Sharma, Director, Poornima College of Engineering</li> <li>Felicitation of Prof. (Dr.) Ramesh Bansal by Dr. Virendra Sangtani, Prof, HOD Dept of Electrical Engineering</li> <li>Felicitation of Dr. Akshay Kumar Rathore, Concordia University, Montreal, Canada by Dr. Sunil Kumar Gupta, Prof., Dept. of Electrical Engineering, Poornima College of Engineering.</li> </ul>	10Min	10.40- 10.50am
6	Release of Conference Proceedings by Dignitaries on Dias	05 Min	10.50- 10.55am
7	Welcome Address & about Poornima Foundation by Dr. Om Prakash Sharma, Director, PCE	05 Min	10.55- 11.00am
8	Introduction of ICRITETR-2017 by Dr. Sunil Kumar Gupta, Prof., Dept. of Electrical Engineering, PCE	03 Min	11.00-11:03 am
9	Words of Wisdom by Shri. Shashikant Singhi, Chairman, Poornima Foundation	05 Min	11:03-11.08 am
10	Few words on the occasion by Guest of Honour Dr. Akshay Kumar Rathore Associate Professor, Concordia University, Canada	02 Min	11.08-11.10 am
11	Inaugural address by Chief Guest (Dr.) Ramesh Bansal, Professor University of Pretoria	15 Min	11.10-11.25 am
12	Words of blessings by Prof. (Dr.) S.M. Seth, Chairman (Emeritus), PF	10 Min	11.25-11.35 am
13	Vote of Thanks by Dr. Virendra Sangtani, Prof., HOD Dept of Electrical Engineering	3 Min	11.35-11.38 am
14	Poornima Gaan followed by National Anthem	2 Min	11.38-11.40 am
15	Group Photograph in front of Academic Block	5Min	11.40-11.45 am



## A BRIEF REPORT OF

# International Conference on "Recent Innovation and Trends in Engineering, Technology and Research" (ICRITETR-2017) December 23-24, 2017

Technically Supported by: ISTE, IETE, ISLE

On Saturday i.e. Dec. 23, 2017 Poornima College of Engineering, Jaipur in Technically association with ISTE, IETE, ISLE organized International Conference on "Recent Innovation and Trends in Engineering, Technology and Research" (ICRITETR-2017).

The occasion witnessed the presence of Prof. (Dr.) S.M. Seth, Chairman (Emeritus), Poornima Foundation, Shri. Shashikant Singhi (Chairman), Poornima Foundation, Prof. (Dr.) Ramesh Bansal, Professor, University of Pretoria (Chief Guest), Dr. Akshay Kumar Rathore, Associate Professor, Concordia University, Canada (Guest of honour), Dr. Om Prakash Sharma, Director, Poornima College of Engineering, Dr. Sunil Kumar Gupta, Professor, Dept. of Electrical Engineering, Convener ICRITETR-2017 and Dr. Virendra Sangtani, Professor, HOD, Dept. of Electrical Engineering.

After the formal welcome and Felicitation, Conference Proceedings was released by all the dignitaries.

Dr. Om Prakash Sharma, Director, Poornima College of Engineering welcomed all the dignitaries, he also briefed about the Poornima Foundation highlighting the key features of Poornima Group of Colleges.

Dr. Sunil Kumar Gupta, Professor, Dept. of Electrical Engineering, PCE (Convenor ICRITETR-2017) given brief introduction of this 2 days international conference and welcome the guests, dignitaries and participants.

Sh. Shashikant Singhi, Chairman, Poornima Foundation, in Words of Wisdom highlighted the key points of technical education and growth of the Poornima College of Engineering in all aspects.

Dr. Akshay Kumar Rathore (Guest of honour), Associate Professor, Concordia University, Canada, briefed the benefits of the networking in current era of technology and research.

Dr. Ramesh Bansal (Chief Guest), Professor, University of Pretoria, delivered the inaugural address and advised that the research should be societal based. He also said that interconnectivity of people should be strong through various medium like whatsapp / email / mobile, etc. to be familiar about recent trends and technologies and about upcoming conferences and workshops.

Prof. (Dr.) S.M. Seth, Chairman (Emeritus), Poornima Foundation, blessed us by highlightening the need of International Conference in current scenario. He also emphasised as how the practical approach could be adopted for research and innovation. He highlighted that it's time to focus upon the need of energy saving and sustainability. It is the right time for the students to learn beyond curriculum through such conferences and events.

Dr. Virendra Sangtani, Professor and HOD, Dept. of Electrical Engineering proposed a Vote of Thanks to all the dignitaries, participants and facility providers.

The program is concluded with Poornima Gaan followed by our National Anthem

Dr. Akshay Kumar Rathore, Associate Professor, Concordia University, Canada, delivered a talk on "Components, Challenges, and Enabling Technologies in Smart Grid". He explained various practical approaches for smart grid and new energy sources.

After lunch two parallel technical sessions were conducted for multi-disciplinary areas with 5 session chairs.

On Sunday i.e. Dec. 24, 2017,

Prof. (Dr.) Ramesh Bansal, Professor, Department of Electrical, Electronic and Computer Engineering, University of Pretoria, South Africa delivered a talk on "An Overview of Smart Grid". This talk presents an overview of Smart Grid and its classifications. Key Drivers of Smart Grid in India are explained. The applications of Smart Grid in Generation, Transmission and Distribution are discussed. Role of smart meters in Smart grid is explained.

After high tea a technical session was conducted for multi-disciplinary topics with 2 session chairs. Total 20 papers presented in this session.

A valedictory ceremony was organised in which total 83 certificates were distributed to participants followed by lunch.











